



ENERGY STORAGE SYSTEMS RESEARCH PROGRAM (ESS)



2009 ESS Program Peer Review

Seattle, Washington USA

Welcoming Remarks

Imre Gyuk

US Department of Energy

DOE / ESS Program Overview ([view.pdf](#))

John Boyes

Sandia National Laboratories

PRESENTATIONS

Long Island Bus NaS Battery Energy Storage Project ([view.pdf](#)) Steve Eckroad (Electric Power Research Institute)

Development of an Integrated Power Controller Based on HT SOI and SiC ([view.pdf](#)) Joseph Henfling (Sandia National Laboratories)

Large Format Carbon Enhanced VRLA Battery Test Results ([view.pdf](#)) Tom Hund (Sandia National Laboratories)

Technical Feasibility of Compressed Air Energy Storage in an Aquifer Storage Vessel ([view.pdf](#)) Michael King (Hydrodynamics Group)

NYSEDA/DOE Energy Storage Initiative Data Management and Analysis ([view.pdf](#)) Bill Moncrief (EnerNex)

Energy Storage Projects in AEP – A Migratory Trend ([view.pdf](#)) Ali Nourai (American Electric Power)

Very High Temperature (400+ °C) High-Power Silicon Carbide (SiC) Power Electronics Converter ([view.pdf](#)) Marcelo Schupback (Arkansas Power Electronics Int'l)

Power Electronics Reliability Analysis ([view.pdf](#)) Mark A. Smith (Sandia National Laboratories)

Design, Fabrication, and Test of a 5 kWh Flywheel Energy Storage System Utilizing a High Temperature Superconducting Magnetic Bearing – Phase III ([view.pdf](#)) Mike Strasik (Boeing)

Large Area SiC Gate Turn Off (GTO) Thyristor Development ([view.pdf](#)) Sid Sundaresan (GeneSic)

Electroactive Ionic Liquids: Karen Waldrip (Sandia National Laboratories)

A New Approach to Flow Batteries

and

Gallium Nitride Substrates for Power Electronics:
Electrochemical Solution Growth ([view.pdf](#))